

NDDL Reference

1. 1. 1. Build tools
2. 2. Source checkout

Apart from build tools, EUROPA is fairly self contained. However, Windows support is all done through Cygwin right now, so you'll need a functional install of that first.

Build tools

For Cygwin ensure that you've got the following packages:

```
openssh
flex
bison
gcc
g++
mingw libraries for gcc/g++
make
svn
swig
unzip
```

After you've done that you'll need to install ant and jam (assuming you have already installed java):

For jam:

- 1) download <ftp://anonymous@ftp.perforce.com/pub/jam/jam-2.5.zip>
- 2) extract with unzip
- 3) execute `make`
- 4) execute `./jam0.exe`
- 5) copy the file from the bin.* directory to somewhere in your path

For ant just follow Apache's instructions for a windows install (they've got a regular binary installer)

Define ANT_HOME in your environment using export and DOS style path names. e.g. `export ANT_HOME=C:\progra~1\apache-ant-1.7.3` (do not go too deep into the \bin directory, because the system will automatically go to \bin for the executables.)

Also, add a JAVA_HOME in your environment the same way as for ANT_HOME.

Source checkout

svn co <https://babelfish.arc.nasa.gov/svn/europa/PLASMA/trunk/PLASMA>

A couple of other environmental constants you need to define:

```
export EUROPA_HOME=$PLASMA_HOME/dist/europa
export LD_LIBRARY_PATH=$EUROPA_HOME/lib:./build/lib:.
```

There are two ways to run EUROPA:

1. in java. Go to the PLASMA directory, and choose among the following two options:

- 1) non-optimized mode: `ant`
- 2) optimization mode: `ant -Dproject.mode=o`

2. in C++. To run a make, you have to define \$EUROPA_HOME in the linux way:

e.g./home/YOUR_USR_NAME/PLASMA/dist/europa Then go to the PLASMA directory, and type in `make`.